

Stream No. 113-41-10170-2008 Route Correction

Stream: Granite Creek Tributary: 113-41-10170-2008

Watershed: Sitka Sound – Frontal Pacific Ocean

USGS Quadrangle: Sitka-A-5

MTRS: Section: 10, 15 Township: 55 S Range: 63 E

Date Surveyed: May 15-17 & June 7, 2012

Findings: This stream provides excellent rearing habitat for coho salmon and Dolly Varden char.

Recommendations: We recommend correcting this stream course in the Anadromous Waters Catalog.

Nomination form submitted: Yes

Nomination Status:

Notes:

Table 1. Survey notes from Stream No. 113-41-10170-2008.

Waypoints	lat	lon	Notes	Sample_Eff	Sample_Res
001	57.101677	-135.401427	Mouth of the creek braided at the end. See photos (3)		
002	57.101433	-135.400445	Tributary river right with high turbidity and heavy iron concentrations. Very orange color. See photos (3).		
003	57.101255	-135.399690	200v, 30Hz and 25% duty cycle. Coho in tributary and it rolled hard, changed volts to 150v. Tributary becomes braided here. Volt back to 175v.	Electrofisher	1 Coho
004	57.101297	-135.399343	Coho about 65mm and about 70 DS of HPR and about 30 US one Dolly Varden about 90mm.	Electrofisher	1 Coho about 65mm and 1 Dolly Varden about 90mm
005	57.101403	-135.399087	Two Coho with one being 65mm and other 95mm. See photos (1). This is where creek comes from under HPR see photo (1).	Electrofisher	2 Coho between 65mm and 95mm
006	57.101441	-135.398699	One Coho about 80mm	Electrofisher	1 Coho about 80mm
007	57.103136	-135.397492	Upper extent of tributary. Comes as drainage from the golf course. See photos (2).		
008	57.102968	-135.398097	Drainage from golf course runs into culvert, see photos (1). Small creek enters on river right, drainage from wetlands.		
009	57.100983	-135.398420	Creek crosses under HPR, see photos (2)		
010	57.103417	-135.389777	Tributary on river right, comes from 2 perched culverts under the road about 50ft from creek.		
011	57.103434	-135.388838	Fork in creek river right is cataloged river left is not. We are headed up river left. Main fork see photo (1). Up to 300v.		
012	57.103367	-135.388396	Possible velocity barrier, see photos (2).		

013	57.104708	-135.383238	End of potential anadromous waters on Granite Creek. Huge waterfall! This stretch would be awesome habitat if fish could get up here mitigation opportunity!		
014	57.104288	-135.388181	Inlet of huge culvert under quarry road. This is the cataloged tributary on Granite Creek. Heading up.		
015	57.104720	-135.388023	Nasty little feeder stream, lots of milky solids in the water. Took a picture and waypoint. See photo (1).		
016	57.104922	-135.387649	Excavated pond on river right, lots of vegetation.		
017	57.105343	-135.386889	Muddy little ditch cataloged to settling ponds, between river.		
018	57.105084	-135.387469	Pocket dial		
019	57.105259	-135.387033	Little feeder creek meets Granite Creek tributary.		
020	57.105547	-135.386813	Two Coho at dogleg in little leech creek.	Electrofisher	2 Coho
021	57.107963	-135.385167	Top of little leech creek. No more Coho.		
022	57.108002	-135.385153	Small tributary on river right. See book photo.		
023	57.108759	-135.383836	Outlet of stream (tributary) into Granite Creek, big tributary leading up to shock.		
024	57.108759	-135.383680	Captured two tiny Dolly Varden in this tributary. Turned volts down to 325v. Just captured one Coho.	Electrofisher	1 Coho and 2 tiny Dolly Varden
025	57.108524	-135.382854	Old logging road crossing the stream. We haven't caught any Coho, just Dolly Varden.	Electrofisher	Dolly Varden
026	57.108410	-135.382511	Ending tributary survey.		
027	57.105611	-135.385832	Outlet of 2 pipes in quarry. 2 big smolt Coho!! This stream leads to two settling ponds that are connected by a battery of 3 plastic pipes. Drawing in notes.	Electrofisher	2 big Coho smolts
029	57.104144	-135.388236	Back on main quarry roadà Heading back down the Granite Creek tributary.		
030	57.103529	-135.388700	Back at confluence of Granite.		

Waypoints	lat	lon	Notes	Sample_Eff	Sample_Res
031	57.108825	-135.383438	Resuming E-fishing on river left tributary to Granite Creek. Settings: 310v, 30Hz and 25% duty cycle.		
032	57.108894	-135.383922	Very small inlet stream on river right. No fish habitat.		
033	57.109439	-135.381531	Tributary enters river right. Begin tracking and shocking upstream.		
DSC00257	57.109471	-135.381512			

034	57.109474	-135.381514	Captured one Coho about 40mm, continuing upstream.	Electrofisher	1 Coho about 40mm
035	57.109523	-135.381441	Captured one Coho about 45mm in small pool. Continuing upstream.	Electrofisher	1 Coho about 45mm
036	57.109854	-135.381535	Upper extent of potential fish habitat. Gradient increases with very low flows.		
037	57.109565	-135.381123	Tributary enters on river left. Begin shocking and tracking upstream.		
038	57.109572	-135.381058	Two Coho captured between 45-55mm.	Electrofisher	2 Coho between 45-55mm
039	57.109570	-135.381027	Pocket dial		
040	57.109482	-135.380859	One Coho about 38mm captured.	Electrofisher	1 Coho about 38mm
041	57.109301	-135.380922	Small tributary enter on river left. One Dolly Varden about 35mm captured. Shocking and tracking up smaller side first.	Electrofisher	1 Dolly Varden about 35mm
042	57.109390	-135.380827	Top of smaller tributary - disconnected pools above. Back to main tributary (notice WPT order got messed up)		
043	57.109383	-135.380596	One Coho captured and about 50mm. Continuing up tributary.	Electrofisher	1 Coho about 50mm
044	57.109243	-135.379834	Gradient barrier		
045	57.110232	-135.379548	Tributary with moderate flow enters on river left. Tracking and e-fishing up.		
046	57.110219	-135.379365	One Dolly Varden about 50mm captured.	Electrofisher	1 Dolly Varden about 50mm
047	57.110136	-135.379343	One Pink salmon about 30mm captured. See photo and one Coho about 50mm.	Electrofisher	1 Coho about 50mm and 1 Pink about 30mm
048	57.109713	-135.379221	One pink salmon fry about 30mm, two Dolly Varden between 50-80mm.	Electrofisher	1 Pink about 30mm and 2 Dolly Varden between 50-80mm
049	57.109561	-135.379122	Two Dolly Varden about 50mm.	Electrofisher	2 Dolly Varden about 50mm
050	57.109230	-135.378736	Upper extent of potential fish passage. Very steep, bedrock channel above with cascading falls.		
Waypoints	lat	lon	Notes	Sample_Eff	Sample_Res
51	57.110284	-135.379376	Confluence of tributary we finished on yesterday. Heading up mainstem.		
52	57.110329	-135.379374	Tributary on river left. See photos (1). Shocking 310v.		
53	57.110573	-135.379062	This tributary ends in wetlands area.		
54	57.110698	-135.379112	Small tributary river right.		
55	57.111031	-135.379461	Tributary ends at gradient with lack of flow barrier.		
56	57.111643	-135.378084	Tributary river left. See photos (1).		
57	57.111820	-135.377949	Coho in tributary about 70mm. See photo (1). Also one Dolly Varden about 35mm.	Electrofisher	1 Coho about 70mm and 1 Dolly Varden about 35mm

58	57.111835	-135.377829	Gradient barrier from tributary, 57 Wp. Caught two Dolly Varden in this tributary and one Coho.	Electrofisher	1 Coho and 2 Dolly Varden
59	57.111866	-135.378164	Tributary on river left. Visual ID on Dolly Varden at head waters. Lack of flow is the barrier.	Visual ID	1 Dolly Varden
60	57.112204	-135.378499	Tributary river left. No fish.		
61	57.112397	-135.378872	Fork in the creek with equal flow fished the confluence, found nothing. Headed up the river left fork. Salmon vertebrae on bank.		
62	57.112756	-135.378864	Two Coho in fork. See photos (1).	Electrofisher	2 Coho
63	57.112847	-135.378819	Tributary on river right		
64	57.113117	-135.378684	Coho about 70mm. Visual on another Coho not netted. On 2nd go around was netted!	Electrofisher	2 Coho and one was 70mm
65	57.113434	-135.378418	End of tributary, ended in wetland/forest mosaic.		
66	57.113143	-135.377181	Gradient barrier, see photos (2).		
67	57.113416	-135.379434	Two Coho netted, see photo (1) and many salmon eggs, old, see photo (1).	Electrofisher	2 Coho
68	57.113803	-135.379198	Tributary river right		
69	57.114141	-135.379449	Coho about 65mm and another visual, but unable to net.	Electrofisher/Visual	2 Coho with one being 65mm and other unknown
70	57.114167	-135.379625	Coho about 65mm, netted.	Electrofisher	1 Coho about 65mm
71	57.114525	-135.379630	End of tributary. H2O becomes stagnant.		
72	57.114738	-135.378240	Tributary river right.		
73	57.114900	-135.377283	Gradient barrier for previous tributary. See photo (1).		
74	57.116143	-135.377641	Caught a Dolly Varden here. This is a ways up the creek, have not seen any fish in a while. Their was no barrier, however no Coho.	Electrofisher	1 Dolly Varden
75	57.116821	-135.377899	End of the survey		
76	57.114186	-135.378748	Hiking out saw numerous salmon bones on side of creek.		
Waypoint	lat	lon	Notes	Sample Effort	Sample Result
001	57.115776	-135.378066	beginning new area-not previously tracked. Low water, subterranean flow present-still connected flow. Continue tracking upstream		
002	57.11607	-135.3781	attempted e-fishing (300V, 30Hz, 12% duty cycle), no fish caught or seen. Very small, disconnected pools, tributary enters on river right. Continue up mainstem	electrofishing	no fish caught
003	57.116179	-135.377496	attempted e-fishing, caught 2 unknown salmonids visually identified-30mm. Continuing upstream	electrofishing	2 unknown salmonids, ~30mm
004	57.116201	-135.37751	tributary enters on river left, begin tracking upstream		
005	57.116132	-135.377233	upper extent of watered habitat-ends in dry marsh, no channel, little to no fish habitat present		
006	57.116191	-135.377405	attempted e-fishing deep pool at confluence (350V, 30Hz, 12% duty cycle)		

007	57.116213	-135.37758	captured 1 unknown salmonid ~25mm, orange tinted fins, took several pictures (photos 0173-0175), probably dv or coho		
008	57.116738	-135.377859	very small tributary enters on river right, attempted e-fishing at confluence and at pool just above, captured 1 unknown salmonid ~25mm, took several pictures (photos 0176, 0178, 0179), looked more dv-like than last small salmonid...	electrofishing	1 unknown salmonid, ~25mm
009	57.116881	-135.377844	tributary enters on river left, begin tracking tributary		
DSC00288	57.116948	-135.37778			
010	57.117259	-135.377144	attempting e-fishing, small pool, habitat looks good, very low gradient-but difficult to fish due to many subterranean portions (350V, 30Hz, 12% duty cycle), no fish seen or caught...continue upstream	electrofishing	no fish caught
011	57.117249	-135.375699	electrofished nice pool-captured 1 dv ~55mm, medium waterfall ~4.5ft, continuing upstream. New settings (450V, 30Hz, 12% duty cycle)	electrofishing	1 DV ~55mm
012	57.117376	-135.375144	calling it the top-stream continues but gradient begins to increase and flow is very minimal		
013	57.118119	-135.377964	calling it the top-upper extent of watered habitat-took photo-became deer habitat, not fish habitat...tracks on, tracks off		

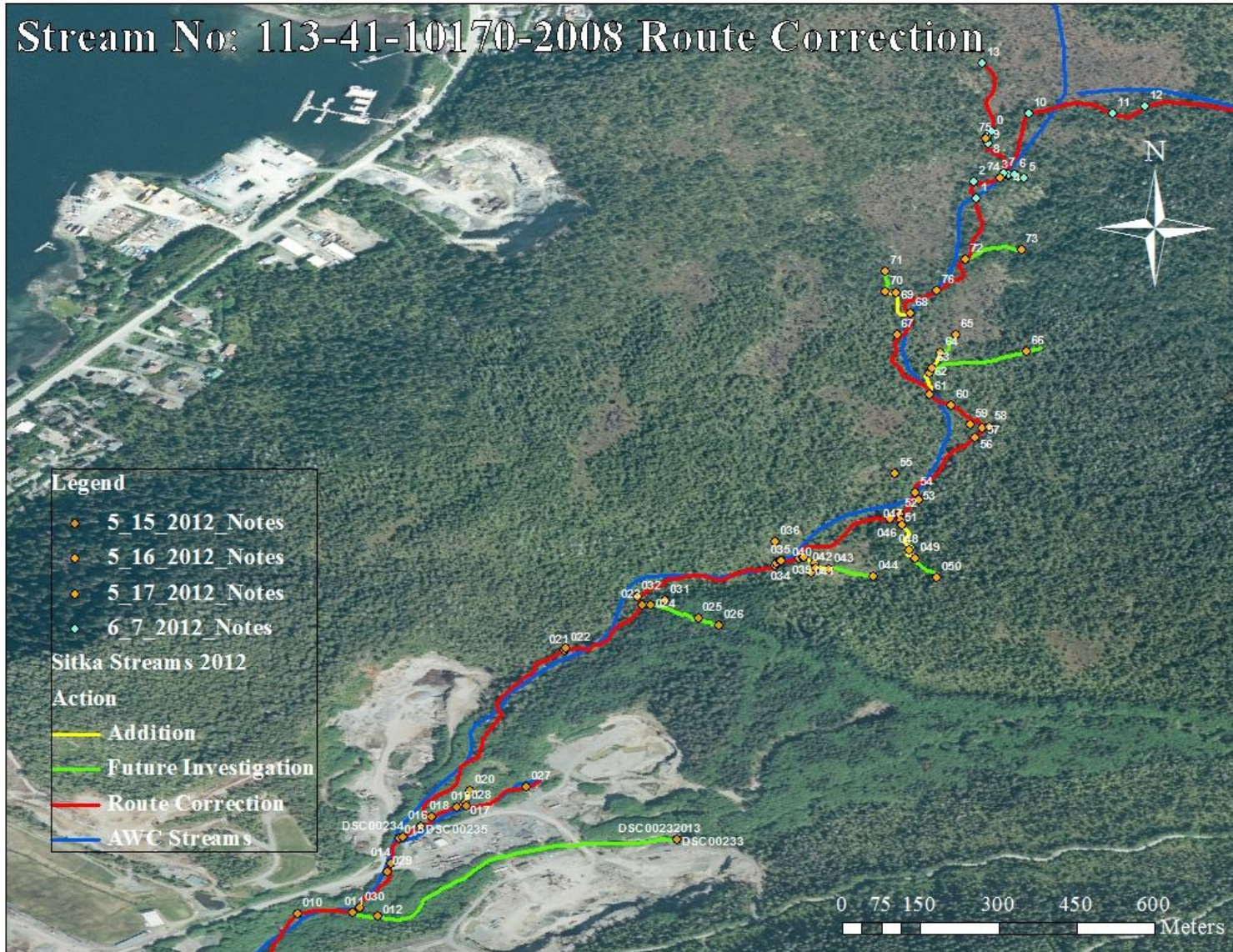


Figure 1. Map of Granite Creek Tributary: Stream No. 113-41-10170-2008 Route Correction.